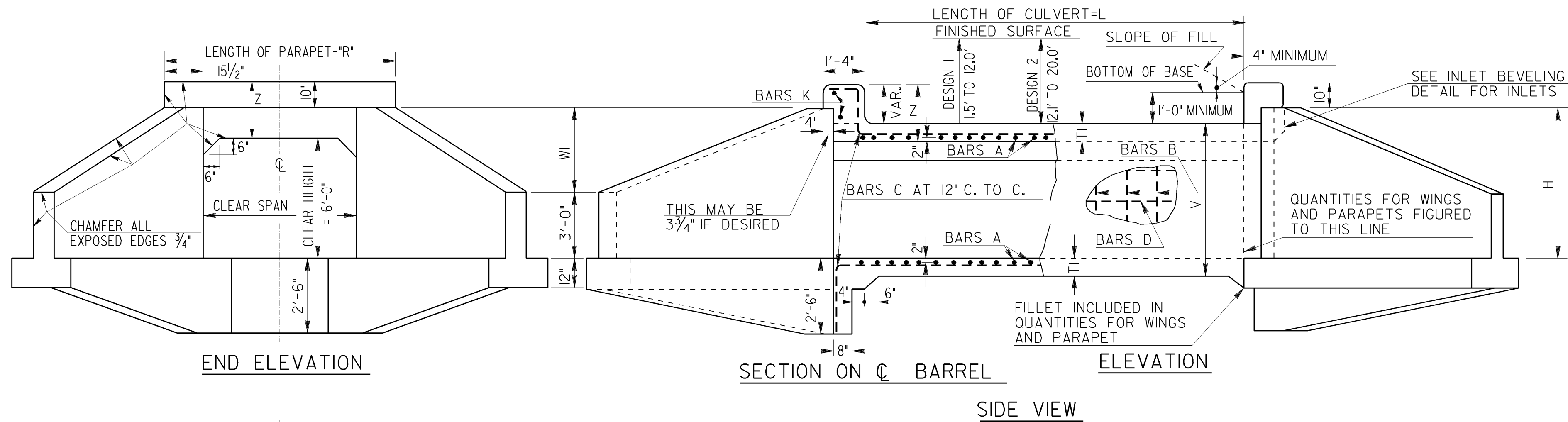
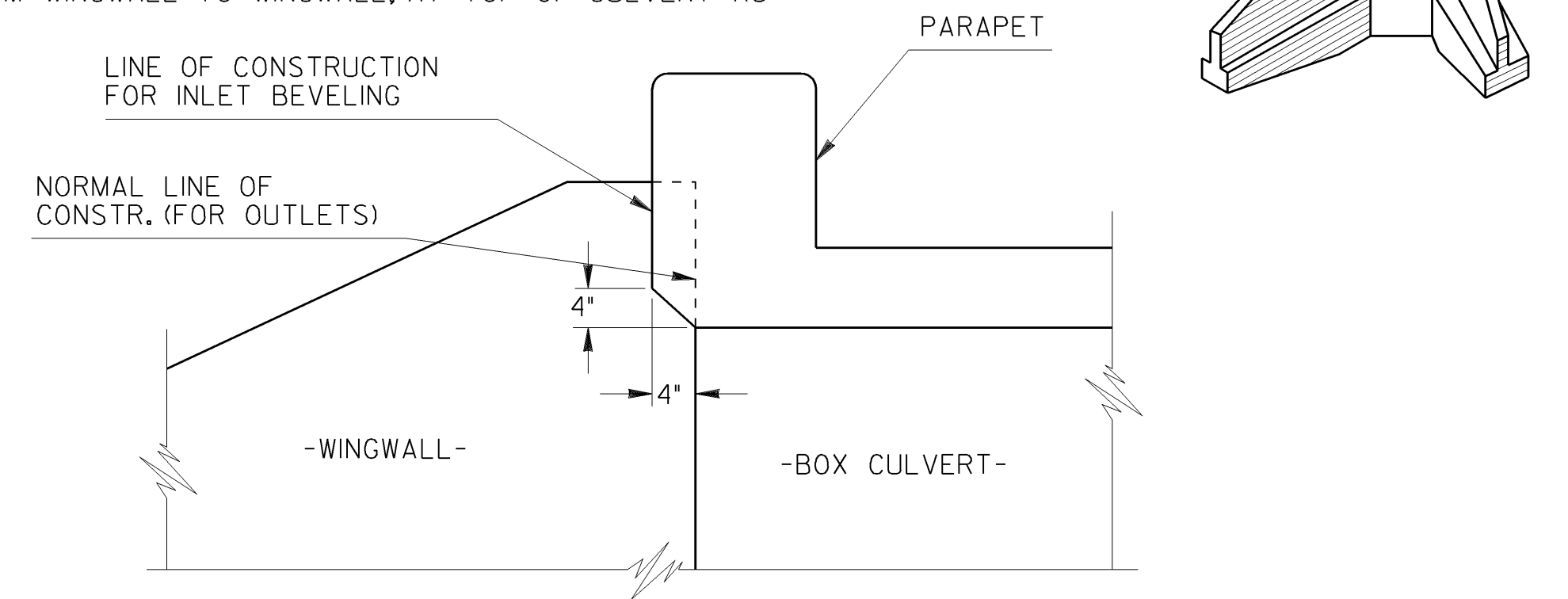


STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



NOTE: INLET BEVELING IS REQUIRED AT THE INLET OF ALL BOX CULVERTS EXTENDING FROM WINGWALL TO WINGWALL, AT TOP OF CULVERT AS SHOWN.



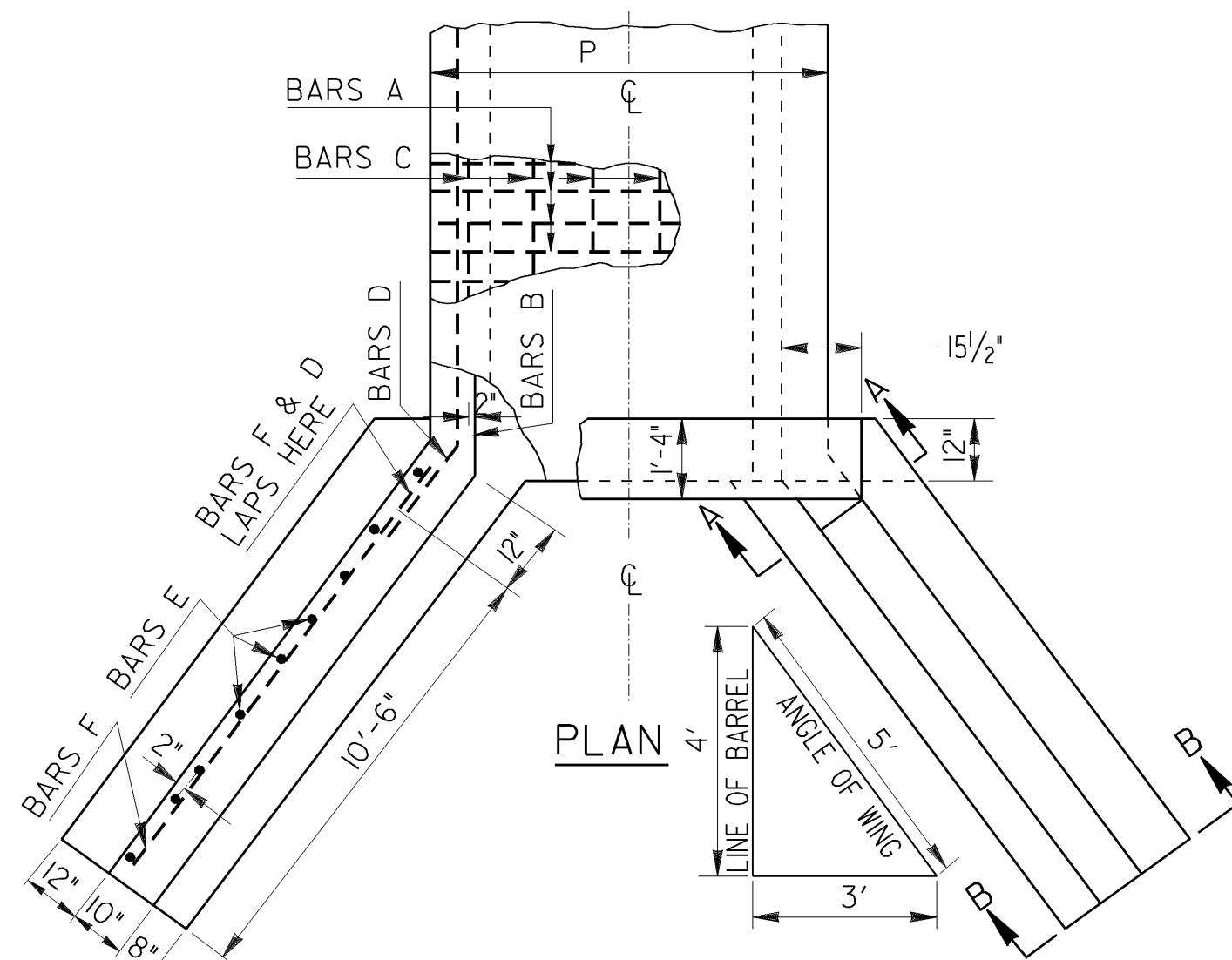
INLET BEVELING DETAIL

GENERAL NOTES:

- CHAMFER-CHAMFER ALL EXPOSED EDGES $\frac{3}{4}$ ".
- CONCRETE APRONS (SEPARATE STANDARD) ARE REQUIRED AT ALL OUTLETS. THE ENGINEER MAY ALLOW AN EXCEPTION FOR THE BED ROCK CONDITIONS. TOEWALLS UNDER PARAPETS MAY BE MODIFIED AT OUTLETS AS SHOWN ON STANDARD DETAIL FOR CONCRETE APRONS.
- QUANTITIES FOR STEEL SHOWN ARE COMPUTED CONSIDERING ALL A, B, C, D, G AND H BARS AS PART OF BARREL QUANTITIES. STEEL PER LIN. FT. IS AN AVERAGE VALUE FOR A CULVERT OF 40' LENGTH ALLOWING ONE LAP IN LONGITUDINAL BARS.
- PARAPETS AT INLETS SHALL BE CONSTRUCTED WITH A $4^\circ/45^\circ$ BEVEL.
- COVER-CULVERT TO HAVE MINIMUM OF 1.0' BELOW BOTTOM OF BASE OR CONCRETE PAVEMENT.

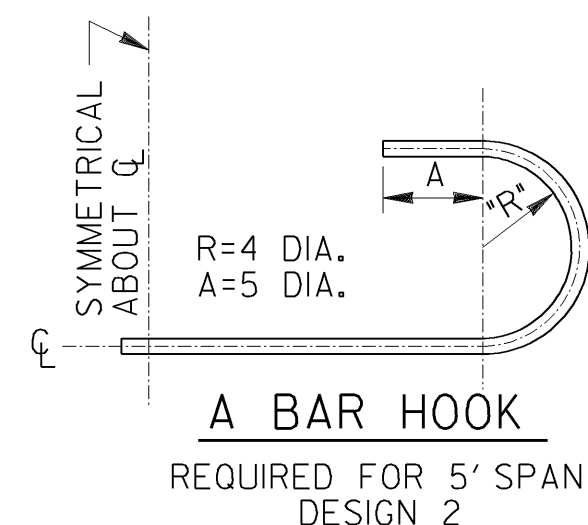
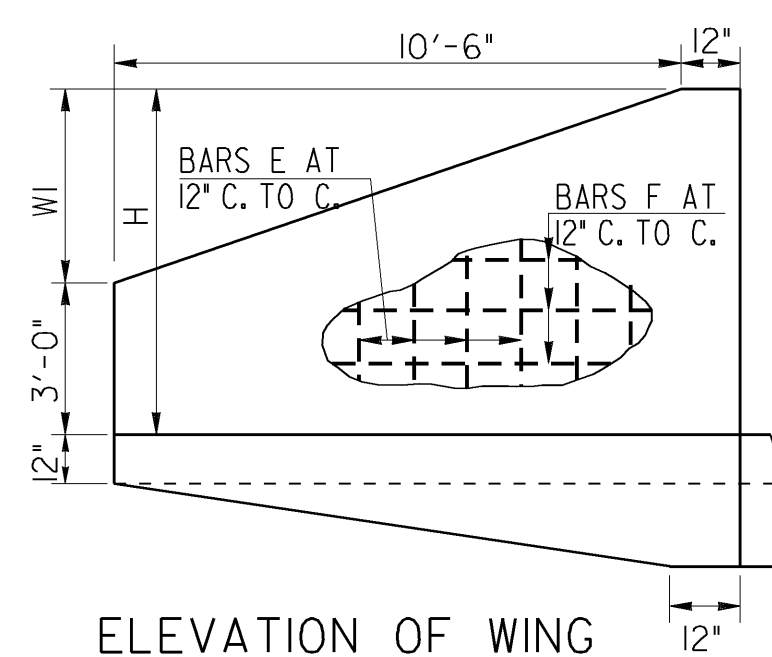
DESIGN DATA

LOADING-TYPICAL HS 20-S16-44 AND/OR MILITARY SPECIFICATIONS - A.A.S.H.O. 1957, T58.

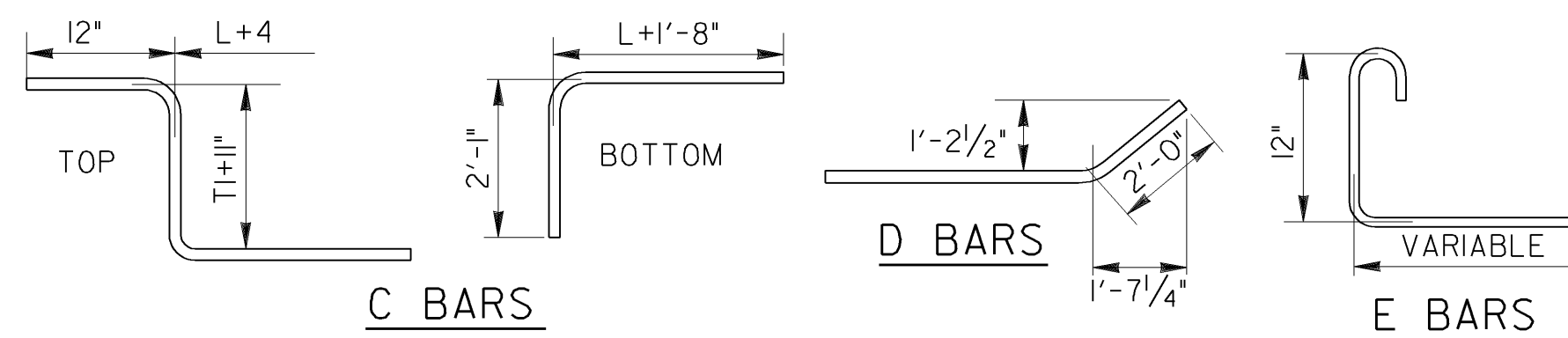


SIZE OF CULVERTS

IN DESIGNATING SIZES OF CULVERTS STATE CLEAR SPAN FIRST, i.e. A 4' x 6' CULVERT HAS A 4' CLEAR SPAN AND A 6' CLEAR HEIGHT. L=LENGTH OF CULVERT-DISTANCE BETWEEN BACKS OF PARAPETS.



A BAR HOOK
REQUIRED FOR 5' SPAN
DESIGN 2



BENDING DIAGRAMS

BOX CULVERT REQUIREMENTS:

MINIMUM FILL HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE 12 INCHES.

MAXIMUM POUR LENGTH SHALL NOT EXCEED 30 FEET ALONG THE LENGTH OF THE CULVERT.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN THE BARREL, NORMAL TO THE CENTERLINE OF CULVERT, AT THE OUTSIDE SHOULDER BREAK POINTS. LONGITUDINAL BARREL REINFORCING STEEL SHALL NOT BE CONTINUOUS THROUGH THESE JOINTS, PROVIDED THAT THE JOINTS ARE MORE THAN 15 FEET FROM THE BARREL ENDS. WHEN TRANSVERSE CONSTRUCTION JOINTS OCCUR WITHIN 15 FEET OF THE BARREL ENDS OR WITHIN THE LIMITS OF THE PAVEMENT, THE LONGITUDINAL BARREL REINFORCING SHALL THEN BE CONTINUOUS THROUGH SUCH JOINTS. THE MINIMUM LENGTH OF LAP SPLICE FOR LONGITUDINAL REINFORCING SHALL BE 24 INCHES.

TRANSVERSE CONSTRUCTION JOINTS PLACED AT ANY OTHER LOCATION NOT SPECIFIED ABOVE SHALL BE FORMED WITH NO LONGITUDINAL REINFORCING STEEL PASSING THROUGH THE JOINTS.

CLEAR SPAN CLEAR HEIGHT		REINFORCING STEEL												DIMENSIONS		QUANTITIES										CLEAR SPAN	CLEAR HEIGHT
		BARREL DESIGN NO. 1 1.5' TO 12.0' FILL OVER BARREL INCLUDING PAVING				BARREL DESIGN NO. 2 12.1' TO 20.0' FILL				WINGWALLS AND PARAPETS SAME FOR ALL DEPTHS OF FILL 4 BARS OF EACH LENGTH						BARREL DESIGN NO. 1	BARREL DESIGN NO. 2	DESIGN		REINFORCING STEEL		CONCRETE					
		A BARS ¾" DIA.	B BARS ⅝" DIA.	C BARS ½" DIA.	D BARS ½" DIA.	A BARS ¾" DIA.	B BARS ⅝" DIA.	C BARS ½" DIA.	D BARS ½" DIA.									NO. 1	NO. 2	ALL	LBS. PER LIN. FT. OF BARREL	WINGWALLS AND PARAPETS TOTAL LBS.	CU. YDS. PER LIN. FT. OF BARREL		WINGWALLS & PARAPETS		
																							DESIGN NO. 1	DESIGN NO. 2	DESIGN NO. 1		DESIGN NO. 2
5'	4'	NUMBER=2 x L IN INCHES ÷ SPACING PLUS 2 BARS ÷ SPACING PLUS																									

STATE HIGHWAY DEPARTMENT OF GEORGIA BRIDGE DEPARTMENT			
STANDARD REINFORCED CONCRETE BOX CULVERTS SINGLE 4' x 6' AND SINGLE 5' x 6' FOR DEPTHS OF FILL UP TO 20 FEET			
NO SCALE	DECEMBER 1959		
DES. R.B.D. DRW. H.L.K. TRA. H.L.K. CHK. W.C.H.-D.P.G.	(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER (APPROVED) CHIEF ENGINEER	NUMBER 2322	